

OWNERSHIP AND ASSIGNMENT

324

PTO/98/98 (08-00)

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: _____

Application No./Patent No.: _____ Filed/Issue Date: _____

Entitled: _____

(Name of Assignee) _____
(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.

The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date_____
Typed or printed name_____
Signature_____
Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

#15/Assent of
assignee
3/5/07

a. 1.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 5,867,139

Issue Date: February 2, 1999

In re Patent Application of

TANAKA et al

Atty. Ref.: 1035-299

Serial No. 08/835,207

Group: 2775

Filed: April 7, 1997

Examiner: Luu, M.

For: Liquid Crystal Display Device and Method of
Driving the Same

* * * * *

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

ASSENT OF ASSIGNEE

Sharp Kabushiki Kaisha, a corporation having an office and place of business at Sharp Kabushiki Kaisha, 22-22, Nagaike-cho, Abeno-ku, Osaka 545-8522 Japan, represents that it is the assignee of the captioned application as evidenced by an assignment document from the inventors which is recorded in the US Patent Office at Reel 8501/Frame 0872 et seq., of all right, title and interest in and to Application Serial No. 08/835,207, filed April 7, 1997, for LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF DRIVING THE SAME.

2001 MAY 14 AM 7:52
NMCN 3 1450

In accordance with 37 CFR §1.172, Sharp Kabushiki Kaisha, 22-22, Nagaike-cho, Abeno-ku, Osaka 545-8522 Japan, the sole assignee of the captioned patent, hereby assents to the February 2, 2001 filing of a patent application in the United States Patent Office for reissue of the captioned patent. Sharp Kabushiki Kaisha further requests that any reissue patent upon such application be granted to Sharp Kabushiki Kaisha, 22-22, Nagaike-cho, Abeno-ku, Osaka 545-8522 Japan in accordance with 37 CFR §1.172(b)

In accordance with 37 CFR §3.73(b), the evidentiary documents accompanying this document or referred to above have been reviewed by the undersigned and it is certified that to the best of the assignee's knowledge and belief, title is in the assignee seeking to take action. Copies of the already-recorded assignments in the chain of title are attached.

The undersigned is authorized to act on behalf of the assignee.

Sharp Kabushiki Kaisha

By: Shigeo Terashima

Typed Name: Shigeo Terashima

Title: Group General Manager
Intellectual Property Group
Sharp Kabushiki Kaisha

Date: May, 10, 2004

1035-127
JUNE 24, 1997



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

PTAS



NIKON & VANDERHIE P.C.
LARRY S. NIKON
1100 NORTH GLEBE ROAD
8TH FLOOR
ARLINGTON, VA 22201

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE
U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE
AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED
BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION
CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE
PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR
HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE
NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR
CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION,
BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/07/1997

REEL/FRAME: 8501/0872
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
ASSIGNOR:

TANAKA, SHINYA

DOC DATE: 03/28/1997

ASSIGNOR:
OCHI, TAKASHI

DOC DATE: 03/28/1997

ASSIGNOR:
KATAYAMA, MIKIO

DOC DATE: 03/28/1997

ASSIGNOR:
SHIMADA, TAKAYUKI

DOC DATE: 03/28/1997

ASSIGNOR:
KANEMORI, YUZURU

DOC DATE: 03/28/1997

ASSIGNEE:
SHARP KABUSHIKI KAISHA
22-22 NAGAIE-CHO, ABENO-KU
OSAKA 545, JAPAN

DOC DATE: 03/28/1997

8501/0872 PAGE 2

SERIAL NUMBER: 08835207
PATENT NUMBER:

FILING DATE:
ISSUE DATE:

JEEVON JONES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

05-16-1997

40-581

U.S. Department of Commerce
Patent and Trademark Office

100418650

IRM COVER SHEET 391 U.S. PRO
08835207

04/07/97

Our Ref: 1035-128

PATENTS ONLY

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Shinya Tanaka
Takashi Ochi
Mikio Katayama

Takayuki Shimada
Yuzuru Kanemori

2. Name and address of receiving party(ies):

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22 Nagaike-cho, Abeno-ku

City: Osaka 545

State/Country: Japan

Zip:

Additional name/s of conveying party/ies attached? []

3. Nature of conveyance:

Assignment Merger
 Security Assignment Change of Name
 Other

Execution Date: 28 March 1997

Additional name/s & address/es attached? [] Yes [X] No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 28 March 1997

A. Patent Application No(s).

(1) (To Be Assigned)
(2)
(3)

B. Patent No(s).

(1)
(2)
(3)

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Larry S. Nixon

Internal Address:

Street Address: Nixon & Vanderhye P.C.
1100 North Glebe Road
8th Floor

City: Arlington State: VA Zip: 22201

Additional numbers attached [] Yes [X] No

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

Enclosed
 Authorized to be charged to deposit account #14-1140

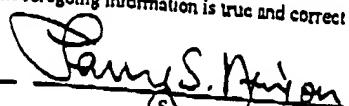
8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

DO NOT USE THIS SPACE

9. Statements and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Larry S. Nixon
Name of Person Signing
Reg. No. 25,640



Signature

April 7, 1997

100-14-1140-0407-08835207

Date

Total number of pages including original cover sheet, attachments, and document: [3]

ASSIGNMENT OF PATENT APPLICATION

(1) Shinya TANAKA

(2) Takayuki SHIMADA

(Inventors) (3) Takashi OCHI

(4) Yuzuru KANEMORI

and

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) (5) Sharp Kabushiki Kaisha

(Address) (6) of 22-22 Nagaike-cho Abeno-ku Osaka 545 Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other Countries) (7) _____ in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(Title) (8) LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF DRIVING THE SAME (Case No. _____) for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not an even date, then has executed

(9) on March 28, 1997

(10) U.S. appln. Serial Number _____ filed on _____ or has already filed in

(11) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

1) The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

2) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

3) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent or the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

4) The undersigned hereby grant(s) the firm of NIXON & VANDERHYPE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date March 28, 1997 Signature of Inventor (1) Shinya Tanaka
Date March 28, 1997 Signature of Inventor (2) Takayuki Shimada
Date March 28, 1997 Signature of Inventor (3) Takashi Ochi
Date March 28, 1997 Signature of Inventor (4) Yuzuru Kanemori

Witnessed by:

Witness _____ Date _____
Witness _____ Date _____

ASSIGNMENT OF PATENT APPLICATION

(1) Mikio KATAYAMA

(2) _____

(3) _____

(4) _____

(Inventors) _____ and _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) (5) Sharp Kabushiki Kaisha

(Address) (6) of 22-22 Nagaike-cho Abeno-ku Osaka 545 Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other Countries) (7) _____ in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(Title) (8) LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF DRIVING THE SAME (Case No. _____)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(9) on March 28, 1997

(10) U.S. appln. Serial Number _____ filed on _____ or has already filed in

(11) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

1) The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

2) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

3) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

4) The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date March 28, 1997 Signature of Inventor (1) Mikio Katayama

Date _____ Signature of Inventor (2) _____

Date _____ Signature of Inventor (3) _____

Date _____ Signature of Inventor (4) _____

Witnessed by:

Witness _____ Date _____

Witness _____ Date _____